

AIM Ann Report
1906 to 1907

Annual Report

OF THE

Auckland Institute

AND

Museum,

FOR

1906-1907.

ADOPTED AT THE ANNUAL MEETING

HELD FEBRUARY 25, 1907.

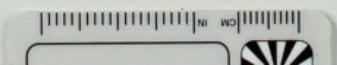
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MDCCCCVII.

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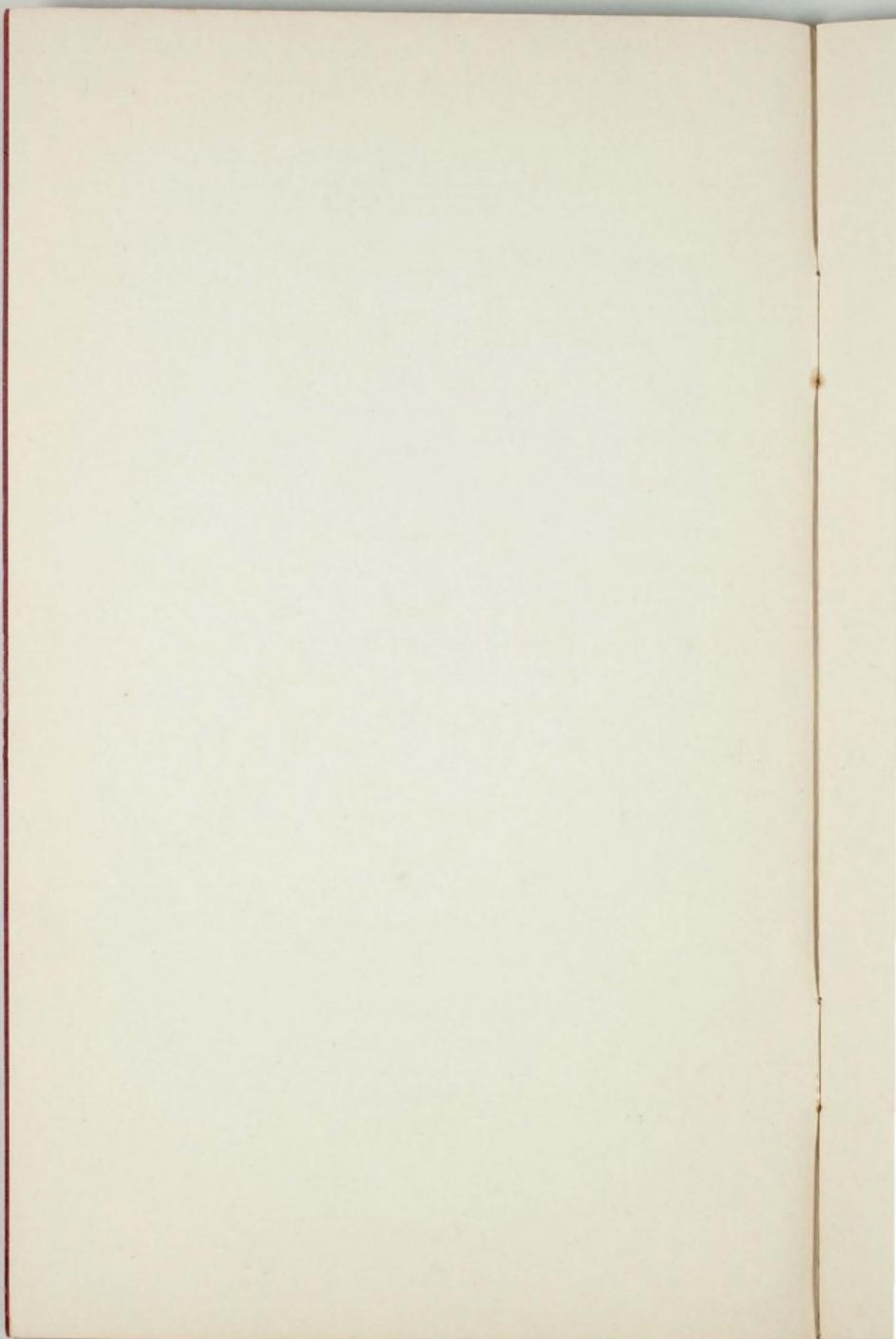
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OFFICERS

OF THE

Auckland Institute.

President:

E. V. MILLER, Esq.

Vice-Presidents:

PROF. F. D. BROWN, M.A. PROF. A. P. W. THOMAS, M.A.

Council:

BAGNALL, L. J., Esq.	PETRIE, D., Esq.
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PEACOCK, T., Esq.	STEWART, J., Esq., C.E.
UPTON, J. H., Esq.	

Secretary and Curator:

T. F. CHEESEMAN, F.L.S., F.Z.S.

Auditor:

W. GORRIE, Esq.

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THE FOLLOWING

Periodicals and Publications of Societies

ARE SUBSCRIBED TO BY THE INSTITUTE:-

NATURE
THE PHILOSOPHICAL MAGAZINE
THE AMERICAN JOURNAL OF SCIENCE
THE ELECTRICIAN
THE PHYSICAL REVIEW
ZEITSCHRIFT FUR PHYSIKALISCHE CHEMIE
ANNALEN DER PHYSIK
COMPTES RENDUS DES SEANCES DE L'ACADEMIE DES SCIENCES
ANNALS AND MAGAZINE OF NATURAL HISTORY
QUARTERLY JOURNAL OF MICROSCOPICAL SCIENCE
ANNALS OF BOTANY
THE BOTANICAL GAZETTE
ENGLER'S BOTANICAL YEAR BOOK
THE GARDENER'S CHRONICLE
THE GEOLOGICAL MAGAZINE
ZEITSCHRIFT DER DEUTSCHEN GEOLOGISCHEN GESELLSCHAFT
SCIENCE PROGRESS
THE ECONOMIC JOURNAL
THE LANCET

TRANSACTIONS AND PROCEEDINGS OF THE ROYAL SOCIETY
TRANSACTIONS AND PROCEEDINGS OF THE ZOOLOGICAL SOCIETY
THE ZOOLOGICAL RECORD
PUBLICATIONS OF THE RAY SOCIETY
JOURNAL OF THE CHEMICAL SOCIETY
QUARTERLY JOURNAL OF THE GEOLOGICAL SOCIETY
JOURNAL OF THE ROYAL AGRICULTURAL SOCIETY
THE GEOGRAPHICAL JOURNAL
REPORT OF THE BRITISH ASSOCIATION

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REPORT OF THE COUNCIL.

In compliance with the Rules of the Society, the Council have now to submit to the members their Thirty-ninth Annual Report, dealing with the financial and general condition of the Institute, and the progress it has made during the year.

Members.—It is satisfactory to announce that 31 new members have been elected during the year, a number considerably above the average. On the other hand, fourteen names have been withdrawn from the roll; four from death, seven from resignation, and three from non-payment of subscription for more than two consecutive years. The net gain is thus seventeen; the number on the roll at the present time being 170. The Council trust that the increase in the number of members will be maintained during the coming session, and will continue to keep pace with the advancing prosperity of the city, and its rapidly increasing population.

Among the members removed by death will be found the name of the Rev. Dr. Purchas, who was not only one of the founders of the Institute, but was intimately associated with its affairs for many years, repeatedly serving both on the Council and as President. In the early days of the Society, when its position was ill-assured and struggling, few members worked more zealously for its advancement, or were more ready to expend their time and energy on its behalf, and the Council feel that his many services should receive full recognition. The remaining deaths are those of Mr. James Adams, who was for many years a frequent contributor to the "Transactions"; Mr. H. Campbell; and Mr. T. W. Kitt.

Finance.—Full details respecting the financial position of the Institute will be found in the balance sheets appended to the Report; but the following abstract will be useful:—The total revenue of the Working Account, omitting the balance of £58 3s 8d in hand at the commencement of the year, has been £1849 13s 4d. But for purposes of comparison several items should be deducted from this sum which form no part of the ordinary revenue, such as the special fund of £655 1s 10d subscribed by the citizens of Auckland to assist the Institute in the erection of the Maori House and the purchase of the late Mr. Fenton's Pataka, presently to be referred to; a further sum of £95, temporarily withdrawn from the Investment Account for the same purpose, and the amount

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of £137 18s received on account of the Mackenzie Bequest for the purchase of groups of mammals. Deducting these amounts, the total ordinary revenue will be found to be £961 13s 6d, a close approximation to that for last year, which was £982 5s 1d. Examining the separate items, it will be seen that the receipts from the invested funds of the Costley Bequest have been £356 5s, the amount for 1905-1906 being £342 1s 3d. The Museum Endowment has yielded in rents and interest £338 19s 8d, the receipts for the previous year being £351 9s 11d; £111 10s have been transferred from the Mackenzie Library Bequest Account for the purchase of books, and £140 14s have been derived from the members' subscriptions. The total expenditure has been £1824 2s 9d, but this includes the amounts expended over the erection of the Maori House and purchase of the Pataka, and the disbursements in connection with the groups of mammals. Excluding these items, the ordinary expenditure has been £898 1s 8d, leaving a credit balance of £84 4s 3d in the Bank of New Zealand. There is no change of importance with respect to the invested funds of the Institute, the total amount of which is £16,373 11s 8d, showing an increase of £10 10s during the year. Practically the whole of this sum is invested in mortgage on freehold securities or in Government debentures.

Meetings.—Seven meetings have been held during the year, at which the following papers were read:—

1. Introductory Address—By the President, Prof. F. D. BROWN, M.A.
2. Earthquakes—By Prof. A. P. W. THOMAS, M.A., F.L.S.
3. The Mystery of Matter—by Mr. E. V. MILLER.
4. Our Drinking Waters, with Methods of Analysis and Estimation—By Mr. J. A. POND, F.C.S.
5. The Evolution of the Railway Locomotive—By Prof. A. JARMAN.
6. School Humour—By Mr. H. A. E. MILNES, B.Sc.
7. Maori Numeration—By ELDON BEST.
8. The Vegetation of the Westport District—By Mr. W. TQWNSON.
9. Contributions to a Fuller Knowledge of the New Zealand Flora—By T. F. CHEESEMAN, F.L.S.
10. Notice of the Occurrence of *Hydatella*—By T. F. CHEESEMAN.

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11. Notes on *Pittosporum obcordatum*—By T. F. CHEESEMAN.
12. Notice of the Discovery of Maori Burial Chests at Waimamaku—By T. F. CHEESEMAN.
13. A Comparison of the Oceanic Languages—By the Rev. C. E. FOX.
14. On the Development of the Different Stages of Leaves in the New Zealand Conifers—By Miss E. M. GRIFFIN, M.A.

A selection from the above has been forwarded to Wellington, with the view of insertion in the next volume of "Transactions." Volume 38 of the "Transactions," containing the papers read before the affiliated Societies in the year 1905, was received in September last, and has been duly distributed among the members.

Museum.—With the exception of a short period devoted to the annual cleaning and rearrangement of specimens, the Museum has been open daily to the public during the year from 10 a.m. to 5 p.m. on week days, and from 2 to 5 p.m. on Sundays. From the register kept by the attendant on Sundays, it appears that the total number of visitors on that day has been 19,786, or an average of 380 for each Sunday. The greatest attendance was 907 on May 20th; the smallest 15 on January 13th. On the nine principal holidays of the year—New Year's Day, January 2nd, Regatta Day, Good Friday, Easter Monday, Empire Day, Prince of Wales' Birthday, King's Birthday, and Boxing Day—the total attendance was 3,765, or an average of 418 for each day. The greatest holiday attendance, as also the greatest attendance on any one day, was 935 on the Prince of Wales' Birthday (June 4). On ordinary week days the visitors can only be occasionally counted; but the daily average is believed to be about 130. This will make a total of 39,000, or of 62,551 for the whole year. Last year the number was estimated at 61,275.

The chief advance made in the Museum during the year has been in connection with the Maori collections. In last year's report the Council stated that fair progress was being made with the erection of the Maori House, Rangitihu, and that it was hoped the house would be completed within a few months. The estimated cost, however, proved to be so large that it was evidently beyond the unaided means of the Institute, and at first the Council hesitated at proceeding further with the work. But the desirability of adding such an important exhibit to the collections was indisputable; and

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after full consideration it was decided to complete the house at once, and then to make an appeal to the citizens of Auckland to provide the funds expended. Arrangements were therefore made with skilled Maoris for the erection of the remaining carvings, and for the completion of the reed-work of the roof and walls. While this was in progress, an unexpected complication arose, through the attempt made by a Government Department to purchase the well-known Pataka or Food-house deposited in the Museum by the late Mr. Fenton, and universally acknowledged to be one of the most perfect examples of Maori art in existence, for the purpose of exhibiting it at the Christchurch Exhibition, and of ultimately placing it at Wellington. The amount asked for the Pataka was £200, so that to retain it in Auckland it was necessary to provide that sum. It was known that the total cost of the Runanga House would exceed £500, so that over £700 was required to free the Institute from liability in connection with the two houses. Believing that there was a wish to assist the Museum in the difficulty in which it was placed, the Council decided to appeal forthwith to the generosity of the citizens of Auckland. The response was most satisfactory, and within two months a sum of over £660 was subscribed. A full list of donors to the fund will be found appended to the report, and the Council have much pleasure in recording the grateful thanks of the Institute for the liberal and sympathetic assistance which has been so freely rendered. Monetary difficulties having thus been disposed of, no time was lost in defeating the attempt to remove the Pataka, by purchasing it for the Museum, and the work of erecting the Runanga House was pushed on as rapidly as possible. Most members of the Institute are aware that the house has since been completed and opened for public inspection. Respecting it, it will suffice to briefly say that it is believed to be the most perfect example of its kind attached to any Museum, and the one in which most care has been taken to preserve a strict agreement with Maori style.

The expenditure in connection with the house proved to be larger than was anticipated. Including the purchase money and the cost of removal to Auckland, it has amounted to £639 17s 6d. Deducting from this the balance of the subscription fund available after the purchase of the Pataka, there still remains a deficiency of £179 5s 8d. For the present this has been borrowed from the capital account of the Institute, but this, of course, is only a temporary expedient. To extinguish it, and to provide for several urgent improvements in the Museum, the Council determined to apply to Parliament for a pound for pound subsidy, equivalent to the

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amount subscribed by the citizens. The assistance of the Auckland members of Parliament was readily granted, and the proposal received the favourable consideration of the Government, ultimately passing through Parliament without opposition. The subsidy has not yet been paid, but the Council trust to receive it before long.

In the zoological department of the Museum the chief addition received during the year is the third group of mounted animals provided for by the Mackenzie Bequest. It consists of a polar bear and three musk oxen—male, female, and young—and forms a very attractive addition to the main hall, in the centre of which it has been placed. A fourth group, which will comprise a zebra and several South African antelopes, is now in preparation in London, and should arrive during the autumn. This will exhaust the funds of the bequest, which has provided a most acceptable series of large and conspicuous additions to the Museum, and has greatly enhanced the appearance of the main hall. In order to provide room for the large plate-glass show-cases containing the groups, several changes of importance have had to be made in the arrangement of the main hall. Among these, it has been found necessary to provide for the alcoholic specimens on the gallery; and shelving, with wire guards, has been accordingly supplied. A consignment of glass jars has been imported, and the specimens are now being prepared for removal. A full list of all additions and donations to the Museum will be found appended to the report.

Library.—The interest on the special bequest of £2,000 made by the late Mrs. Mackenzie in favour of the Library has been regularly received, and duly expended in the purchase of books. In all, three consignments have been ordered from London, two of which, comprising about 68 volumes, have safely arrived, and the third is now on its way. A complete list of the books received will be found in the appendix to the report. In addition to these purchases, the usual exchanges and presentations from foreign institutions have been received, together with some donations from private individuals. The magazines and other serial publications subscribed to by the Society, a list of which will be found on another page, have been regularly received, and to some extent circulated among the members. A considerable expenditure has also been incurred for binding.

The increasing growth of the Library will soon make the question of additional accommodation a very pressing one. In order to provide additional space, the Council authorised the removal of certain duplicate sets, and these have been

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distributed among country libraries. But the relief so obtained will only be temporary; in fact, the books now expected from England will absorb almost the whole of the remaining wall space. It is much to be regretted that circumstances still compel the use of the Library as the meeting-room of the Institute, for as long as it is occasionally required for that purpose it is impossible to erect additional shelving, or to make other necessary changes in the room.

In concluding the report, the Council wish to tender the thanks of the Institute to the numerous donors to the Museum and Library, whose names are given in the appended list. They also wish to draw the attention of the members to the generous action of the Shaw, Savill Company in providing for the free carriage of the large packing-cases containing the group of mammals alluded to in the report. Finally, the Council trust that the members and the public generally will continue to give that active support which has been so freely rendered in previous years.



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INVESTMENTS OF THE AUCKLAND INSTITUTE.

	£ s. d.	£ s. d.
I.—COSTLEY BEQUEST.		
On Mortgage on Freehold Security at 5 per cent.	4,000 0 0	
N.Z. Government 4 per cent. Debentures	1,900 0 0	
Dunedin Corporation 4½ per cent. Debentures	1,000 0 0	
On Mortgage on Freehold Security at 5½ per cent.	350 0 0	
On Mortgage on Freehold Security at 5½ per cent.	200 0 0	
Balance of Loan for Erection of Statue Hall	100 0 0	
Waiting Investment	150 0 0	
	7,700 0 0	
Invested in Site of Museum	2,500 0 0	
Expended in Erection of Ethnological Hall	1,500 0 0	
Expended in Show Cases and Fittings	450 0 0	
	4,450 0 0	
Total of Costley Bequest	12,150 0 0	
II.—MUSEUM ENDOWMENT.		
N.Z. Government 4 per cent. Debentures	1,700 0 0	
Harbour Board 4½ per cent. Debentures	1,000 0 0	
Gas Company Debentures	550 0 0	
On Mortgage on Freehold Security at 5 per cent.	1,200 0 0	
On Mortgage on Freehold Security at 5 per cent.	500 0 0	
On Mortgage on Freehold Security at 5 per cent.	350 0 0	
On Mortgage on Freehold Security at 5½ per cent.	420 0 0	
On Mortgage on Freehold Security at 5½ per cent.	250 0 0	
Loan for Purchase and Erection of Maori House	156 1 3	
Waiting Investment	151 10 5	
	6,277 11 8	
III.—MACKEYNIE LIBRARY BEQUEST.—		
On Mortgage on Freehold Security at 5 per cent.	1,300 0 0	
Dunedin Corporation 4½ per cent. Debentures	700 0 0	
	2,000 0 0	
IV.—NATHAN BEQUEST.—		
On Mortgage at 5 per cent.	100 0 0	
V.—LIFE SUBSCRIPTION ACCOUNT.—		
On Mortgage on Freehold Security at 5 per cent.	150 0 0	
Deposited in Auckland Savings Bank	46 0 0	
	196 0 0	
Total	£20,723 11 8	
Proportion bearing Interest	£16,273 11 8	

Documents for Securities and Receipts for Debentures lodged in Bank examined and found in order.
February 22, 1907. W. GORRIE, Auditor.

The Treasurer in Account with the Auckland Institute and Museum Trust Board.

WORKING ACCOUNT.

February 22, 1906, to February 20, 1907.

	£ s. d.		£ s. d.
Balance in the Bank of New Zealand, Feb. 22, 1906	58 3 8	Books, Periodicals, Binding	121 9 0
Annual Subscriptions	140 14 0	Additions to Museum (including Purchase of Pataka)	217 10 0
Interest from Costley Bequest	356 5 0	Museum Requisites	24 18 7
Rents and Interest Transferred from Museum Endowment Account	338 19 8	Salaries	425 14 0
Interest Transferred from Mackenzie Library Bequest Account	111 10 0	Printing, Advertising, Insurance, Gas, Stationery, Postages, Cleaning, and Other Expenses	118 6 7
Interest on Nathan Bequest	5 0 0	Paid on Account of Groups of Mammals	162 6 7
Interest on Life Subscription Account	9 1 9	Paid on Account of Maori House	363 14 6
Advance from Investment Account towards Cost of Erecting Maori House	95 0 0	Paid to Investment Account in Reduction of Loan for Purchase, etc., of Maori House	200 0 0
Special Subscriptions for Purchase of Pataka and Erection of Maori House	655 1 10	Paid to Investment Account in Reduction of Loan for Erection of Statue Hall	100 0 0
Received on Account of Mackenzie Bequest for Purchase of Groups of Mammals	137 18 0	New Fittings, Painting, Repairs to Buildings, etc.	54 0 3
Miscellaneous	0 3 1	Land Tax	32 10 0
	<hr/> <u>£1,907 17 0</u>	Miscellaneous Payments	5 3 3
	<hr/> <u>£1,907 17 0</u>	Balance in Bank of New Zealand, Feb. 20, 1907	81 4 3

T. F. CHEESEMAN, Treasurer.

Examined and found correct.

W. GORRIE, Auditor.

February 22, 1907.

The Treasurer in Account with the Auckland Institute and Museum Trust Board.

MUSEUM ENDOWMENT ACCOUNT.

February 22, 1906, to February 20, 1907.

	£ s. d.		£ s. d.
Sales of Endowments ...	4 10 0	Balance due Bank of New Zealand, Feb. 22, 1906	2 18 0
Rents of Endowments ...	99 19 9	Transferred to Working Account	358 19 8
Interest on Investments	242 2 2	Bank Charges	0 10 0
	<hr/> £346 11 11	Balance in Bank of New Zealand, Feb. 20, 1907	4 4 3
			<hr/> £346 11 11

MACKECHNIE LIBRARY BEQUEST ACCOUNT.

	£ s. d.		£ s. d.
Balance in Bank of New Zealand, Feb. 22, 1906	10 15 0	Transferred to Working Account for Purchase of Books	111 10 0
Interest on Investments	102 15 0	Bank Charges	0 10 0
	<hr/> £113 10 0	Balance in Bank of New Zealand, Feb. 20, 1907	1 10 0
			<hr/> £113 10 0

T. F. CHEESEMAN, Treasurer.

Examined and found correct.

W. GORRIE, Auditor.

February 22, 1907.

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ADDITIONS and DONATIONS TO THE LIBRARY AND MUSEUM.

- Parliamentary Papers and Reports; New Zealand Hansard for 1906; New Zealand Statistics; New Zealand Official Year Book; Annual Report and other Publications of the Department of Agriculture; Cheeseman's Manual of the New Zealand Flora:—The New Zealand Government.
- Transactions of the New Zealand Institute, Vol. 38: Bulletin of the Colonial Museum:—The Manager of the New Zealand Institute.
- Bulletins 1 and 2 (new series) of the Geological Survey:—The Director of the Geological Survey
- Journal of the Polynesian Society, parts of Vol. 15:—The Society.
- Proceedings of the Linnean Society of New South Wales, Vols. 29, 30, and part of 31:—The Society.
- Annual Report of the Department of Mines, New South Wales; Stead's Fishes of Australia:—The Department.
- Annual Report of the Australian Museum for 1905; Records of the Australian Museum, various numbers:—The Museum.
- The Australian Naturalist, Vol. 1:—The N.S. Wales Naturalists' Field Club.
- The Geelong Naturalist:—The Geelong Naturalists' Field Club.
- United States Consular Reports:—The Secretary of State, United States of America.
- Report of the United States National Museum for 1905; Bulletins of the U.S. National Museum, Nos. 54, 55; Proceedings of the U.S. National Museum, Vol. 29; Annual report of the Smithsonian Institution for 1905-1906:—The Smithsonian Institution.
- Twenty-third Annual Report of the Bureau of American Ethnology; Bulletins Nos. 28 and 29:—The Bureau.
- Hopkins's Black Hills Beetle; Phillipps's Rearing of Queen Bees; Sanderson's Report on Miscellaneous Cotton Insects in Texas; Bank's Revision of the Tyroglyphidae of the United States; Marlatt's San Jose or Chinese Scale; Howard's Brown-tail Moth and how to Control it; Howard and Burgess's Laws in Force against Injurious Insects and Foul Brood in the United States; White's Bacteria of the Apiary; Proceedings of the Eighteenth Meeting of Economic Entomologists; Contributions from the U.S. National Herbarium:—The Department of Agriculture, U.S.A.
- Science Studies from the Montana Agricultural College, Vol. 1, Parts 1, 2, 3:—J. W. Blankenship.
- Report of the Geological Survey of Canada, Vol. 15; Paleozoic Fossils of Canada, Vol. 3, Part 4:—The Geological Survey, Canada.
- Transactions and Proceedings of the Nova Scotian Institute of Science, Vol. 11:—The Institute.
- Illustrations of West American Oaks:—Prof. Setchell.
- Weleker's For People Who Laugh:—The Author.
- Publications of the Philippine Weather Bureau for 1906:—The Bureau
- Journal of the Royal Colonial Institute, Vol. 37:—The Institute.

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- Annals of the Royal Observatory of Edinburgh, Vol. 2:—The Observatory.
Symons's Monthly Meteorological Magazine:—The Editor.
Report of the Solar Physics Observatory for 1905; Barometric Variations of Long Duration:—The Solar Physics Observatory.
Icones Plantarum, parts of Vols. 8 and 9; Various Numbers of the Kew Bulletin:—The Director, Kew.
Reports and Other Publications of the Deutsche Seewarte:—The Seewarte.
Bulletin of the Societe Royale de Botanique de Belgique, tomes 41 and 42:—The Society.
Annual Report of the Central Meteorological Observatory of Japan for 1905:—The Observatory.
Works of Machiavel, Citizen and Secretary of Florence, London, 1680: Miss Kathleen Macmahon
Reise de Oesterreichischen Fregatte Novara um der Erde, by Commander Wullerstorff Urbair:—Mrs. J. Higginson.
Budge's Inner History of the Carnegie Steel Trust:—The Author.
Enlarged Photograph of the Painting of Captain Cook in Trinity House, Hull:—J. D. Enys.

BOOKS PURCHASED.

- Ray Lankester's Treatise on Zoology, Vol. 5, Mollusca.
Cambridge Natural History, Vol. 1, Protozoa.
Hatch and Corstophine's Geology of South Africa.
Royal Society's Report on the Eruption of Krakatoa.
Scott's Voyage of the Discovery, 2 vols.
Guppy's Naturalist in the Pacific, Vol. 2, Plant Dispersal.
Wundt's Principles of Physiological Psychology, Vol. 1.
Murray's Museums and Their Uses, 3 vols.
Rathgen's Preservation of Antiquities.
Lafan's Handbuch der Technischen Mycologie, 13 parts.
Poynting and Thomson's Text-book of Physics, Vol. 3, Heat.
Alfred R. Russell's My Life and Times, 2 vols.
Braithwaite's English Moss Flora, 3 vols.
Mellor's Chemical Statics and Dynamics.
Harbord's Metallurgy of Steel.
Whetham's Solutions.
Year Book of the U.S. Department of Agriculture for 1903, 1904, 1905.
Clerke's Problems of Astrophysics.
Macpherson's Astronomers of To-day and their Work.
Buller's Supplement to the Birds of New Zealand, part 2.
Suess's Face of the Earth, Vol. 2.
History of the Collections in the British Museum, Vol. 2.
British Museum Catalogue of Madrporarian Corals, Vol. 6.
Engler's Pflanzenreich, parts.
Reid's Principles of Heredity.
Lankester's Extinct Animals.
Baly's Spectroscopy.
Chittenden's Physiological Economy of Nutrition.
Fleming's Principles of Electric Wave Telegraphy.
Hann's Principles of Climatology.
Coulter's Plant Studies.
Coulter's Plant Relations.
Whetham's Experimental Electricity.

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- Clarke's System of the Stars.
Avebury's Origin of Civilisation.
Maspero's Struggle of the Nations.
Pfeiffer's Physiology of Plants, Vol. 3.
Knuth's Handbook of Flower Pollination, Vol. 1.
Cunynghame's Geometrical Political Economy.
Strutt's Becquerel Rays.
Moissan's Electric Furnace.
Chamberlain and Silsby's Geology and Earth History, 3 vols.
Physical Papers of H. A. Rowland.
Ostwald and Ramsay's Observations in Chemistry.
Le Chatelier's High Temperature Measurements.
Robine's Cyanide Industry.
Lob and Lorenz's Electro-Chemistry of Organic Compounds.
Wyer's Producer Gas and Gas Producers.
Sapper's Volcanic Districts of Middle America and the West Indies.
Landolt-Bornstein's Tables for Physical Chemistry.
Tryon's Manual of Conchology, Vols. 8, 9, 10, 16.
Lewkowitsch's Chemical Technology and Analysis of Oils, Fats, and Waxes.
Thresh and Porter's Preservatives in Food and Food Examination.
Stevens and Hobart's Steam Turbine Engineering.
Hallock and Wade's Evolution of Weights and Measures and the Metric System.
Hilgard's Soils, their Formation and Properties.
Miers' Mineralogy.
Hatch and Chalmer's Gold Mines of the Rand.
Lockyer's Stonehenge and Other British Stone Monuments.
Merzbacher's Expedition to the Thian-shan Mountains.
Gregory's Dead Heart of Australia.
Washington's Manual of the Chemical Examination of Rocks.
Browning's Introduction to the Rarer Elements.
Duhem's Thermodynamics and Chemistry.
Landauer's Spectrum Analysis.
Merrill's Non-metallic Minerals, their Occurrence and Uses.
Prescott and Winslow's Elements of Water Bacteriology.
Pictet's Vegetable Alkaloids.
West's British Fresh-Water Algae.
Rutherford's Radioactive Transformations.
Westermarck's Origin and Development of the Moral Ideas.
Marsh's Reinforced Concrete.
Clerk's History of Astronomy.
Bauer's Precious Stones.
Etheridge and Jack's Geology and Palaeontology of Queensland and New Guinea, 2 vols.

Arctic Group, consisting of Polar Bear, and three Musk Oxen, male, female, and Young:—Purchased out of the Mackenzie Bequest for Groups of Large Animals.
Skull of Maori:—A. V. Harrison.
Skin of Long-tailed Cuckoo:—W. T. De Souza.
Skin of Spoon-bill Duck:—H. R. Benn.
Skin of Popokotea (*Certhiparus albicapillus*):—E. C. Brown.
Skin of Peacock:—W. McLaughlin.
Skin of Spotted Water-Crake (*Porzana affinis*):—Hallyburton Johnstone.
Albino Lark:—G. W. Carter.
New Zealand Frog:—E. J. Walters.

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- Australian Frog, found in a Block of Lava from Mount Eden:—T. Knox.
Hoplodactylus granulatus:—S. Fry.
Skin of Diamond Rattlesnake:—Wetherby Boorman.
Fijian Iguana:—S. Levi.
Specimens of Anchovy (*Engraulis ecrasicolus*):—Mrs. Robson.
Neochatuna apoda:—F. W. Wood.
Large Phasmid from Rarotonga; Specimens of *Birgus latro*; *Squilla* sp.:—J. L. Young.
Euplectella; two Emu Eggs; Specimens of Vegetable Caterpillars:—P. Holt.
Lasiorynchus barbicornis:—F. Minchen.
Nest of Introduced Wasp from Russell, Bay of Islands:—L. Hingston.
Macrothele Huttoni:—W. J. Wray.
New Zealand Shells:—Miss Laurent.
Helix Busbyi and Eggs:—Mr. Watts.
Argonauta nodosa:—R. Fenton.
New Zealand Shells:—T. Wilson.
Large Marine Annelid:—J. Munro.
Fossil Tooth of Shark:—C. Redwood.
Gold and Silver Sulphide Ore from No. 6 Level, Waihi Mine:—The Waahi Gold Mining Company.
Concretions with Fossil Shells:—G. Graham, jun.
Minerals from Tokatea, Coromandel:—J. P. Culhane.
Stalactitic Brown Iron Ore from Puketui, Tairua:—J. Patton.
Elaborately Carved Maori Pataka, or Food House, formerly the property of the late Judge Fenton:—Purchased by the subscriptions of the Citizens of Auckland.
Carved Maori Toboggan, or Reti:—Elsdon Best.
Two Old Maori Spades; Two Digging Sticks; Two Cartridges Boxes:—J. B. Berry.
Maori Stone Axes:—A. Smith.
Maori Fern-pounder:—W. Drummond.
Model of Samoan House:—Mrs. P. A. Edmiston.
Sword, said to have been used by a Drummer Boy at Waterloo:—H. W. Hill.
One Mauser Rifle, One Martini-Henry Rifle:—Defence Department, as Trophies of the South African War.



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LIST OF MEMBERS

For the Year ending March 31, 1907.

[HONORARY AND LIFE MEMBERS DISTINGUISHED THUS*.]

- | | |
|--------------------------------------|--------------------------------|
| Aickin, G., Auckland | Darby, P., Auckland |
| Arnold, C., Auckland | Devore, A. E. T., Auckland |
| Aubin, E. D., M.B., Thames | Douglas, W. S., Auckland |
| Bagnall, L. J., Auckland | Duthie, D. W., Auckland |
| Ball, W. T., Auckland | |
| Bankart, A. S., Auckland | |
| Bartley, E., Devonport | |
| *Bates, T. L., Newcastle, N.S.W. | |
| Batger, J., Auckland | |
| Beere, D. M., C.E., Auckland | |
| Benjamin, E. R., Auckland | |
| Best, Elsdon, Te Whaiti | |
| Brett, H., Auckland | |
| Brown, Captain T., F.E.S., Drury | |
| Brown, E. C., Taumarunui | |
| Brown, Prof. F. D., Auckland | |
| Brown, J., Epsom | |
| Buchanan, J., Auckland | |
| Buddle, T., Auckland | |
| Burgess, E. W., Devonport | |
| *Burton, Colonel, Lake Takapuna | |
| Bush, W. E., C.E., Auckland | |
| Buttle, J., Auckland | |
| Cameron, R., Auckland | |
| *Campbell, Sir J. L., M.D., Auckland | |
| Carr, R. A., Auckland | |
| Casey, M., Auckland | |
| Cheal, P. E., Auckland | |
| Cheeseman, T. F., F.I.S., Auckland | |
| Cheeseman, H. H., M.R.C.S., Coro- | |
| mandel | |
| Ching, T., Remuera | |
| Clark, A., Auckland | |
| Clark, H. C., Auckland | |
| Clark, M. A., Auckland | |
| Coates, T., Orakei | |
| Cochrane, W. S., Auckland | |
| Combes, F. H., Auckland | |
| Cooper, C., Auckland | |
| Cooper, Mr Justice, Wellington | |
| Cousins, H. G., Auckland | |
| Cozens, G., Auckland | |
| Craig, J. J., Auckland | |
| Cummings, H., Auckland | |
| | Haines, H., F.R.C.S., Auckland |
| | Hamer, J. H., C.E., Auckland |
| | Hansen, P. M., Auckland |
| | Hardie, J., Auckland |
| | Haszard, H. D. M., Thames |
| | Hazard, W. H., Auckland |
| | Heaton, F., Auckland |
| | Henry, W., Auckland |
| | Herbert, T., Parnell |
| | Hodgson, J., Auckland |
| | Horton, H., Auckland |
| | Houghton, C. V., Auckland |
| | Howden, J., Auckland |
| | Hunter, A. J., Parnell |
| | Hutchinson, G., Auckland |
| | Jarman, Prof. A., Auckland |
| | Johnson, H. D., Te Aroha |
| | Jones, H. W., Papakura |

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- Kenderdine, J., Auckland
Kidd, A., M.H.R., Auckland
Kirker, J., Auckland
Kronfeld, G., Auckland
- Langguth, E., Auckland
Larner, V. J., Auckland
Lennox, J. M., Auckland
*Lennox, W. G., Sydney
Leys, T. W., Auckland
Lundon, J. R., Auckland
Lyell, W. S., Parnell
- McMillan, C. C., Auckland
Mahoney, T., Auckland
Mair, Captain G., Thames
Mair, S. A. R., Rangitikei
Mair, Major W. G., Auckland
Martin, J., F.G.S., Auckland
Masefield, T. T., Auckland
McLean, M., Auckland
McDowell, W. C., M.D., Auckland
McLachlan, J. M., Auckland
Miller, E. V., Chelsea
Milnes, H. A. E., Auckland
Mitchelson, Hon. E., Auckland
Moody, T. P., Hikurangi
Morton, H. B., Auckland
Munro, G. C., Sandwich Islands
Murdoch, D. L., Auckland
Myers, A. M., Auckland
- *Nathan, N. A., Auckland
Newton, G. M., Auckland
Nicholson, O. R., Auckland
- Pabst, Dr., Auckland
Paris, Rev. P. R., Otaki
Parker, W. F., Auckland
Partridge, H. E., Auckland
Patterson, G. W. S., Auckland
Peacock, T., Auckland
Petrie, D., F.L.S., Auckland
Philcox, W., Devonport
Philson, W. W., Auckland
Pond, J. A., Auckland
Powell, F. E., Auckland
Purdie, E. C., Auckland
Pycroft, A. T., Auckland
- Reid, J., Auckland
Renshaw, F., Auckland
Roberton, E., M.D., Auckland
Robertson, W. A., Auckland
Rolfe, W., Auckland
- Seegner, C., Auckland
Segar, Prof. H. W., Auckland
Shakespear, R. H., Little Barrier
Shaw, H., Auckland
Sinclair, A., Auckland
Smeeton, H. M., Auckland
Smith, H. G. S., Auckland
Smith, S. P., F.R.G.S., Taranaki
Smith, T. H., Auckland
Smith, W. H., Auckland
Speight, W. J., Auckland
Spencer, W. C. C., Auckland
Stewart, J., C.E., Auckland
Stopford, R., M.D., Auckland
Streeter, S. C., Auckland
Suter, H., Auckland
- Talbot-Tubbs, Prof. H. A., Auckland
- Thomas, Prof. A. P. W., F.L.S., Auckland
- Thompson, F. K., Auckland
Tibbs, J. W., Auckland
- *Tinne, H., London
- Upton, J. H., Auckland
Urquhart, A. T., Karaka
- Vaile, E. E., Auckland
- Walsh, Archd. P., Waimate
Waterworth, A., Auckland
Ward, P., Auckland
Webster, J., Hokitika
Webster, Rev. W., Wainku
- *Weetman, S., F.R.G.S., London
Will, W., Auckland
Williams, Right Rev. W. L., Bishop of Waipu, Napier
Wilson, A. P., Auckland
Wilson, W. R., Auckland
Winter, N. A., Onehunga
- *Withy, E., Opotiki
Worley, F. P., Auckland
- Yates, E., Auckland
Young, J. L., Auckland

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SUBSCRIPTIONS

Received towards the Purchase of the late Mr. Fenton's
Pataka, and the erection of the Maori House Rangitihī.

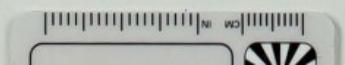
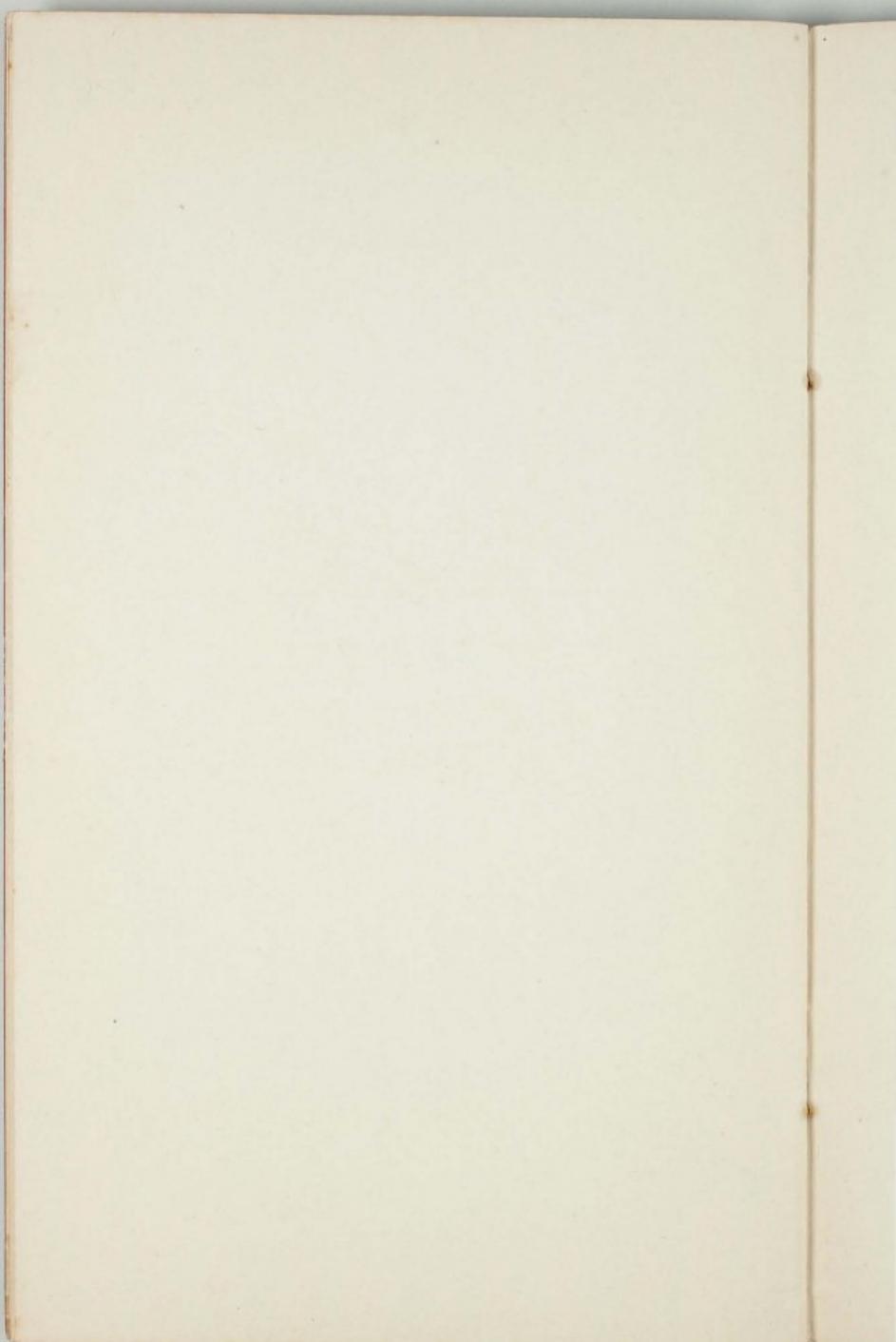
	£ s. d.		£ s. d.
Alexander, I.	0 10 6	"C.E.H."	1 0 0
Arnold, C.	1 0 0	Campbell, Rev. J.	1 1 0
Aubin, Dr. E. D.	1 1 0	Campbell, Sir J. L.	10 10 0
Auckland College and Grammar School (col- lected by) —		Carpenter, J. H. M.	1 1 0
A. H.	0 10 0	Carr, R. A.	10 0 0
Baker, A. S.	0 10 0	Chambers, J., and Sons... .	3 3 0
Bevins, A.	0 10 0	Chapman, C. R.	1 0 0
Bolland, J.	0 10 6	Clark, A., and Sons	10 10 0
Brown, T. G.	0 10 0	Clark, H. C.	1 1 0
Gallagher, Rev.	0 10 0	Clark, Mrs. McCosh	3 3 0
Godsboro' & Wade	1 1 0	Cochrane, W. S.	1 1 0
Knight, A. O.	0 10 0	Coleman, W.	1 1 0
Knight, G.	1 1 0	Collins Bros.	2 2 0
Leyland, W. B.	1 0 0	Combes, F. H.	1 0 0
Masefield, T. T.	1 1 0	Cooper, C.	1 1 0
Sinclair, G.	1 0 0	Cotter, T.	1 1 0
Tibbs, J. W.	1 1 0	Court, J.	1 1 0
Webber, A.	0 10 0	Craig, J. J.	25 0 0
Wheeler, J. E.	0 10 0	Dawson, Mrs. Col.	2 2 0
Sums under 10s	117 0 4	Devore, A. E. T.	2 2 0
	127 14 10	Dingwall, D.	1 0 0
Auckland Meat Co.	3 3 0		
Bagnall, L. J.	1 1 0	Earl, F.	1 1 0
Batger, J.	5 0 0	Edwards, Mr. Justice	1 1 0
Bloomfield, G. R.	5 0 0	Edson, J.	5 5 0
Bloomfield, H. R.	2 2 0	Egerton, Prof. C. W.	2 2 0
Bloomfield, J. L. R.	2 0 0	Elliott, W. and G.	1 1 0
Bloomfield, W. R.	1 1 0	Ellis, J. W.	1 1 0
Brett Printing Co.	15 0 0	Ellison, T.	2 0 0
Briscoe and Co.	5 5 0	Entrican, A. J., and Co.	1 1 0
Broun, Major T.	0 10 0	Ewington and Baker	1 1 0
Brown, Barrett, & Co.	3 3 0		
Brown, Prof. F. D.	5 0 0	Ferro-Concrete Co.	2 2 0
Brown, J.	5 0 0	Finch, R. E.	0 10 0
Buchanan, Miss	0 10 0	Frater, J. P.	0 10 6
Buckland, A., and Sons.	3 3 0	Frater, R.	2 2 0
Buddle, Button, and Co.	2 2 0	Frater, W.	2 2 0
Burton, Colonel	2 2 0	"Friend"	0 10 0
Buttle, G. A.	2 2 0		
Buttle, James	5 5 0	Gilbert, T.	1 1 0
Burt, A. and T.	1 1 0	Goodfellow, H.	5 0 0
Burns, J., and Co.	3 3 0	Gordon, H. A.	1 1 0
		Graham, G., jun.	1 1 0
		Great Northern Brewery	3 3 0
		Gunson, W., and Co.	1 1 0

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	£ s. d.		£ s. d.
"H."	4 1 0	Outhwaite, Miss	0 10 0
Hall, J. W.	1 1 0	Papakura, Maggie	1 1 0
Hamer, W. H.	1 0 0	Partridge, H. E.	2 2 0
Hansen, P. M.	2 2 0	Peacock, T.	10 0 0
Hardie Bros.	5 0 0	Peacocke, F.	1 0 0
Hayman, P., and Co.	3 3 0	Petrie, D.	1 1 0
Heather, Robertson, & Co.	5 5 0	Phillipps, J.	2 2 0
Hellaby, R. and W.	10 10 0	Pierce, Mrs. E.	1 1 0
Henderson & Macfarlane	5 5 0	Pond, J. A.	2 2 0
Hesketh & Richmond	3 3 0	Porter, E., and Co.	5 0 0
Hill & Plummer	2 2 0	Rangihapi	1 1 0
Hobbs, R.	5 0 0	Ranson, C.	1 1 0
Hodgson, J.	2 2 0	Reid, J.	5 5 0
Holland, J. J.	1 1 0	Robertson, Dr. E.	2 2 0
Holt, Percy	0 10 0	Russell and Campbell	2 2 0
Houghton, C. V.	1 1 0	Russell and Somers	1 1 0
Hull, F.	1 0 0	Sargood, Son, and Ewen	10 0 0
Jackson, S.	5 0 0	Seegner, C.	0 10 0
"J.K."	1 0 0	Segar, Prof. H. W.	2 2 0
Johnson, H. D.	0 10 0	Sharland and Co.	3 3 0
Keesing, Mrs. E.	0 10 6	Shaw, H.	2 2 0
Kemphorne, Prosser & Co.	3 3 0	Smeeton, H. M., and Co.	3 3 0
Kidd, A.	1 1 0	Smith and Caughey	10 0 0
Kirkbride, M. M.	1 1 0	Smith, H. G. Seth	5 0 0
Kirker, J.	10 0 0	Smith, T. H.	1 1 0
Kohn, A.	2 2 0	Stewart, J.	5 0 0
Langguth, E., and Co.	3 3 0	Street, Mrs.	1 1 0
Larner, V. J.	2 2 0	Streeter, S. C.	0 10 0
Ledingham, W.	0 10 6	Taupopoki, Mita	1 1 0
Leighton and Sons	2 2 0	Telephone Exchange	0 12 0
Lewis, Dr. T. H.	2 2 0	Thomas, Prof. A. P. W.	3 3 0
Lusher, R. J.	1 1 0	Union S.S. Co.	3 3 0
Macky, Logan, & Caldwell	10 10 0	Upton, J. H.	10 0 0
Mahoney, E.	1 1 0	Urquhart, A. T.	1 1 0
McCullagh and Gower	1 1 0	Vaile, S., and Sons	5 5 0
Mennie, J. M., and Co.	5 5 0	Walsh, Archdeacon	1 0 0
Miller, E. V.	1 1 0	Walsh, M. H.	1 0 0
Milne and Choyce	2 2 0	Watson, A. R.	5 0 0
Mitchelson, Hon. E.	5 0 0	Webster, J.	2 0 0
Monk, H. G.	2 0 0	Whitley, W. S.	1 1 0
Monro, H. A. H.	2 2 0	Whitson, The Misses	1 1 0
Morton, Edward	5 3 0	Wildman and Arey	1 1 0
Morton, H. B.	1 1 0	Williamson, C.	1 0 0
Mowbray, J. M. and J.	1 1 0	Wilson, R. M.	25 0 0
Murdoch, D. L.	10 0 0	Wilson, W. R.	25 0 0
Myers, A. M.	10 0 0	Winstone and Co.	2 2 0
Nathan, A. H., and Co.	5 0 0	"X.Y."	3 3 0
Nathan, L. D., and Co.	10 10 0	Yates, A., and Co.	5 0 0
Neligan, Bishop	1 0 0	Total	... 662 1 10
Newton, G. M.	1 1 0		
Niccol, G.	1 0 0		
Nicholson and Gribbin	2 2 0		

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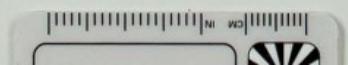


Wilson & Horton, Printers, Auckland.

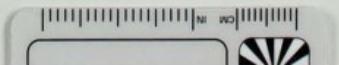
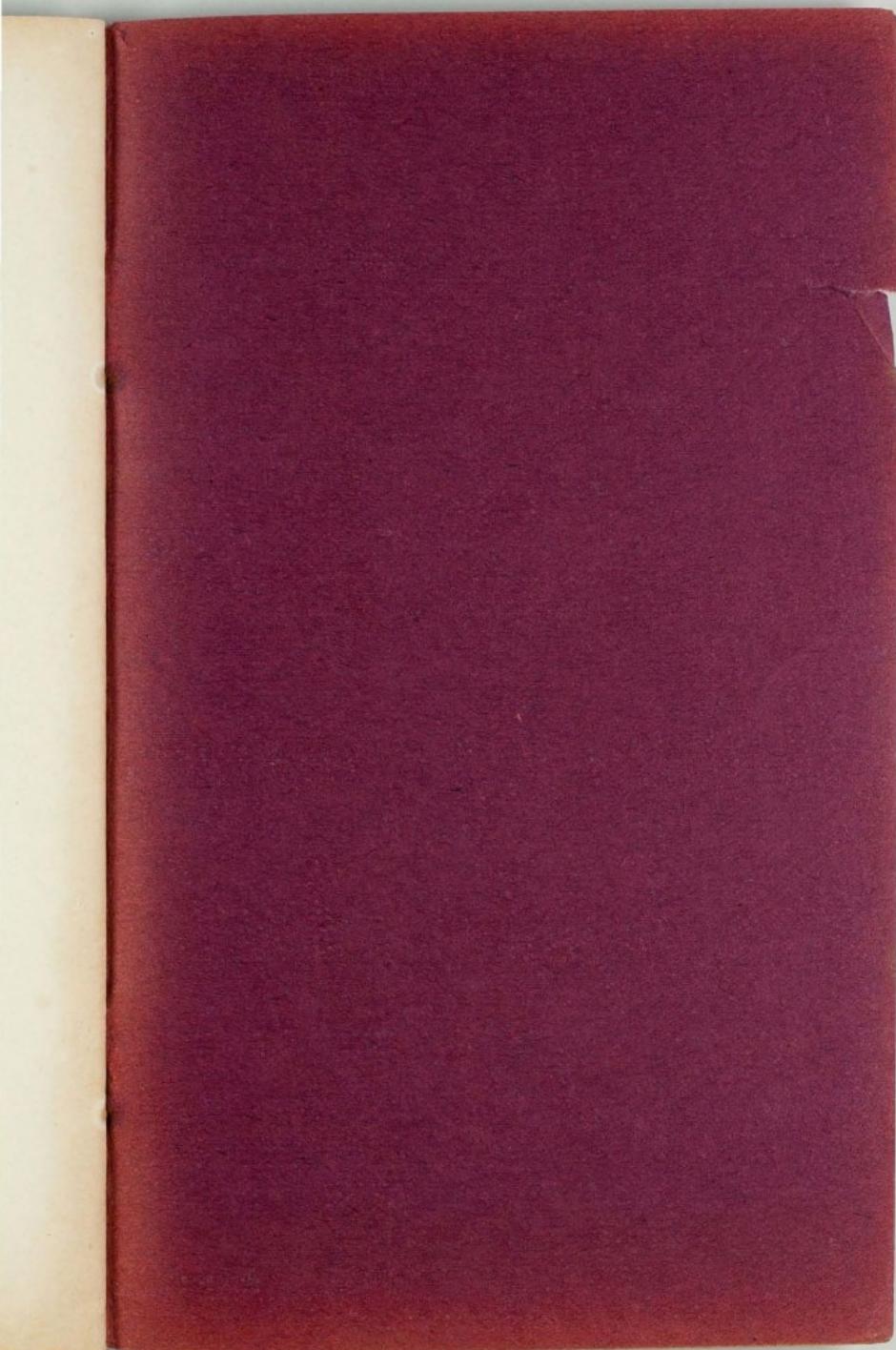
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